

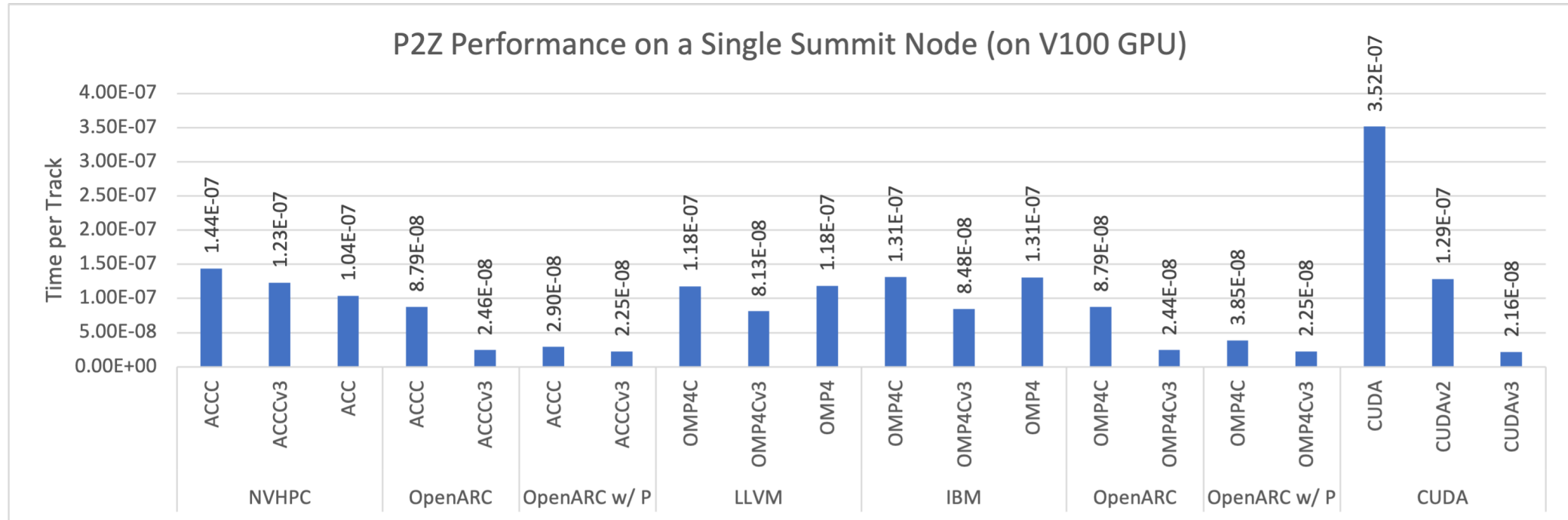
# OpenACC vs. OpenMP4 P2Z Performance Comparison

Seyong Lee

Oak Ridge National Laboratory

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# P2Z Performance: OpenACC, OpenMP4, and CUDA Performance on a Summit Node



- **ACCC**: OpenACC C sync version
- **ACCCv3**: OpenACC C async version
- **ACC**: OpenACC C++ sync version
- **OMP4C**: OpenMP4 C sync version
- **OMP4Cv3**: OpenMP4 C async version
- **OMP4**: OpenMP4 C++ sync version
- **CUDA**: CUDA unified memory version
- **CUDAv2**: CUDA sync version
- **CUDAv3**: CUDA async version

Compilers: NVHPC (V21.11), OpenARC (V0.71)\*, LLVM (V15.0), IBM (V16.1.1), CUDA (NVCC V11.0)

\***OpenARC w/ P** refers to OpenARC with host memory prepinning optimization